

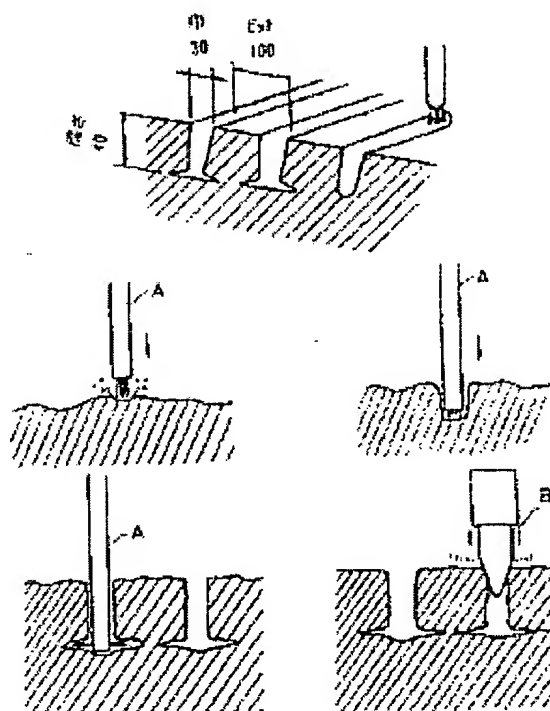
## DISMANTLING TECHNIQUE OF REFRACTORY LINING

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### Abstract of JP1193587

**PURPOSE:** To dismantle the necessary part of refractory lining easily in a short period of time, by a method wherein a groove, having a geometrical pattern, is provided on a refractory material by water jet employing a vertical nozzle and the bottom of the groove is expanded employing a horizontal or slanted rotary nozzle to dismantle the refractory lining by a mechanical means. **CONSTITUTION:** A groove, having the shape of zebra, mesh of net, spot, chain or the like, is worked on the surface of a refractory lining vertically by the shocking projection of super high-pressure water from a nozzle A. The depth of the groove is to the upper surface of the healthy layer of the refractory lining. The bottom of the groove is expanded employing a rotary nozzle, horizontal or slanted with respect to the bottom of the groove, so as to generate a crack readily. Subsequently, mechanical vibration is provided to the groove to generate cracks between the grooves and dismantle the necessary refractory lining. The space between the cracks, worked by the horizontal or slanted rotary nozzle, is preferably less than 30mm and the width of the crack is preferably more than 1mm. A tapered pick B is inserted into the groove and the pick B is vibrated utilizing compressed air as a power source to dismantle the lining mechanically.



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